Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-12-06-13** **Date: 26-09-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-09-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-09-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.54	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-12-06-13** **Date: 22-10-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-09-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	24-09-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:
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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-12-06-13** **Date: 26-09-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	23-09-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-12-06-13** **Date: 26-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.6	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.26	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-12-06-13** **Date: 25-09-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-09-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-09-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-12-06-13** **Date: 25-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-12-06-13** **Date: 25-09-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 23-09-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

Page 1/2

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-12-06-13** **Date: 25-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-12-06-13** **Date: 04-10-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-10-19
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	01-10-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	203	198	16279	31.310	1923.4	2036.8	Not less than 1800Kg/m^3
2	398	200	199	15840	33.880	2138.9		
3	405	200	199	16119	33.015	2048.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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CIVIL PRO Sig. Date. BANGALORE

Lab ID : **CP-2019-12-06-13** **Date: 04-10-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	202	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	202	201	
3	403	201	199	
4	400	201	201	
5	400	200	200	
6	399	200	202	
7	403	201	199	
8	401	203	200	
9	400	203	201	
10	402	199	200	
11	403	199	202	
12	401	201	203	
13	402	202	203	
14	402	201	202	
15	402	200	202	
16	402	201	202	
17	404	202	202	
18	403	200	202	
19	403	199	199	
20	402	202	203	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2019-12-06-13** **Date: 04-10-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	202	80839	420.0	5.2	5.1
2	400	202	80827	410.2	5.1	
3	403	201	80948	405.9	5.0	
4	400	201	80355	421.7	5.2	
5	400	200	80114	419.5	5.2	
6	399	200	79827	412.9	5.2	
7	403	201	81041	408.9	5.0	
8	401	203	81362	415.6	5.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-12-06-13** **Date: 28-09-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-09-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	27-09-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 09/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	30/09/2019	09/10/2019	151.65 X 151.94 X 151.97	23043	**8.074**	422.8	18.3	18.3
2	Plinth Beam Concrete	M20	30/09/2019	09/10/2019	151.14 X 149.15 X 151.51	22542	**8.407**	415.4	18.4	
3	Plinth Beam Concrete	M20	30/09/2019	09/10/2019	151.77 X 149.51 X 149.05	22691	**8.334**	411.1	18.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 28/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	30/09/2019	28/10/2019	149.54 X 150.70 X 150.59	22535	**8.488**	538.2	23.9	23.3
2	Plinth Beam Concrete	M20	30/09/2019	28/10/2019	149.81 X 151.76 X 150.87	22736	**8.260**	518.9	22.8	
3	Plinth Beam Concrete	M20	30/09/2019	28/10/2019	149.36 X 151.27 X 151.74	22592	**8.241**	523.3	23.2	

Note:

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Sweetha. N K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 14/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-10-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	07/10/2019	14/10/2019	149.49 X 151.12 X 149.67	22591	**8.074**	419.9	18.6	18.7
2	Lintel Concrete	M20	07/10/2019	14/10/2019	151.62 X 150.55 X 149.98	22826	**8.407**	423.5	18.6	
3	Lintel Concrete	M20	07/10/2019	14/10/2019	151.41 X 151.67 X 150.60	22964	**8.334**	435.8	19.0	

Note:

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Suretha .N K
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 04/11/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-10-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	07/10/2019	04/11/2019	149.66 X 149.06 X 151.13	22308	**8.488**	535.3	24.0	23.5
2	Lintel Concrete	M20	07/10/2019	04/11/2019	149.32 X 151.22 X 150.62	22579	**8.260**	509.8	22.6	
3	Lintel Concrete	M20	07/10/2019	04/11/2019	151.24 X 150.60 X 149.60	22777	**8.241**	542.0	23.8	

Note:

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Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 25/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	18/10/2019	25/10/2019	149.28 X 149.98 X 151.69	22390	**8.074**	414.3	18.5	18.4
2	Roof Concrete	M20	18/10/2019	25/10/2019	151.76 X 151.62 X 149.57	23010	**8.407**	422.1	18.3	
3	Roof Concrete	M20	18/10/2019	25/10/2019	150.50 X 149.44 X 150.00	22491	**8.334**	414.9	18.4	

Note:

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Sunitha. N K
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 15/11/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	18/10/2019	15/11/2019	151.72 X 151.32 X 151.48	22958	**8.488**	548.4	23.9	23.2
2	Roof Concrete	M20	18/10/2019	15/11/2019	151.70 X 150.06 X 151.32	22764	**8.260**	505.9	22.2	
3	Roof Concrete	M20	18/10/2019	15/11/2019	150.60 X 149.43 X 149.09	22504	**8.241**	529.0	23.5	

Note:

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Sweetha N K
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Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 26/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	150.20 X 150.29 X 149.19	22574	**8.074**	413.9	18.3	18.5
2	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	151.60 X 149.41 X 149.21	22651	**8.407**	424.1	18.7	
3	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	149.76 X 149.55 X 150.10	22396	**8.334**	416.1	18.6	

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Suretha. N.L
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 16/11/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	149.89 X 149.09 X 150.66	22346	**8.488**	527.5	23.6	23.1
2	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	151.00 X 151.89 X 151.40	22935	**8.260**	505.7	22.0	
3	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	150.73 X 149.06 X 149.57	22468	**8.241**	534.2	23.8	

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Smitha. M.K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 26/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

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Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	149.78 X 151.85 X 151.71	22745	**8.074**	413.5	18.2	18.6
2	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	150.11 X 149.96 X 149.50	22511	**8.407**	424.5	18.9	
3	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	150.47 X 149.89 X 150.33	22555	**8.334**	424.2	18.8	

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BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 16/11/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	151.15 X 149.38 X 149.22	22579	**8.488**	533.3	23.6	23.1
2	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	150.07 X 149.23 X 149.17	22396	**8.260**	493.2	22.0	
3	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	150.49 X 149.06 X 151.01	22433	**8.241**	527.6	23.5	

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Assistant Executive Engineer
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BBMP, Bangalore - 97

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Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 26/10/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	149.07 X 151.87 X 149.07	22640	**8.074**	429.7	19.0	18.7
2	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	150.57 X 151.58 X 150.01	22823	**8.407**	419.4	18.4	
3	Cement Concrete Pavement	M20	19/10/2019	26/10/2019	151.59 X 150.20 X 149.26	22769	**8.334**	426.4	18.7	

Note:

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BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-06-13** **Date: 16/11/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. Sharan Sagar.V, # 57, Bwaraka, M. Nanjappa Main Road, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/99/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	149.72 X 151.42 X 149.79	22670	**8.488**	527.5	23.3	22.9
2	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	151.71 X 149.69 X 151.41	22709	**8.260**	499.9	22.0	
3	Cement Concrete Pavement	M20	19/10/2019	16/11/2019	151.14 X 149.57 X 150.85	22605	**8.241**	529.9	23.4	

Note:

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BBMP, Bangalore - 97

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Quality Manager

****End of Report****

TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2019-12-06-13** **Date: 10-10-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. nanjappa main road, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-10-19
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	04-10-19

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	12.04	12.01	12.058	12.04
2	300	300	300	300	12.04	12.074	12.07	12.01
3	300	300	300	300	12.03	12.05	12.036	12.03
4	300	300	300	300	12.06	12.05	12.058	12.06
5	300	300	300	300	12.08	12.06	12.05	12.08
6	300	300	300	300	12.03	12.07	12.07	12.07
7	300	300	300	300	12.08	12.05	12.08	12.07
8	300	300	300	300	12.02	12.05	12.04	12.05
9	300	300	300	300	12.04	12.04	12.02	12.04
10	300	300	300	300	12.04	12.01	12.05	12.04
Average	**300**		**300**		**12.05**			

Smitha .M.L
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL PRO Sig. Date. BANGALORE

TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	12.04	14.8	14.66
2	300	300	12.06	14.2	
3	300	300	12.02	14.9	
4	300	300	12.06	14.8	
5	300	300	12.05	14.6	

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Smitha. N L
AE W10

End of Report

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2019-12-06-13** **Date: 03-10-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. nanjappa main road, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-10-19
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-10-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

Sweetha. N K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL PRO Sig. Date. BANGALORE

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2019-12-06-13** **Date: 03-10-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	_
5	*Loose Bulk Density (Kg/litre)	1.73	_

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CIVIL PRO Sig. Date BANGALORE

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****End of Report****

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Format No: CP/TF/2017

TEST REPORT FOR MORTAR SAND

Lab ID	:	**CP-2019-12-06-13** **Date: 07-10-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Govt School at Doddabommasandra in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. Sharan Sagar.V, # 57, Bwaraka, M. nanjappa main road, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/99/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-19
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-10-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
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CIVIL PRO Sig. Date. BANGALORE

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-12-06-13** **Date: 07-10-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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****End of Report****